

United States
Department of
Agriculture

Forest
Service

Fishlake
National
Forest

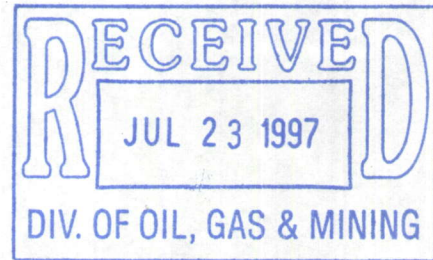
Beav Ranger District
P. O. Box E
Beaver, UT 84713

File Code: 2810

5/031/003

Date: July 21, 1997

Lynn Kunzler
Division of Oil, Gas and Mining
1594 W North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801



Dear Lynn:

I have enclosed a copy of the approved, amended plan of operations for the Deer Trail Mines submitted by Unico, Inc., for your records. The amended plan authorizes mining and removal of ore for a two year period. An additional bond of \$500.00 has been posted by Unico, Inc. to meet the reclamation requirements of the plan.

Please call Steve Winslow at 801-438-2436 if you have any questions.

Sincerely,

Steve Winslow

for DAYLE R. FLANIGAN
District Ranger

Enclosure (1)

Plan # 040803971a

PLAN OF OPERATIONS FOR MINING ACTIVITIES
ON NATIONAL FOREST LANDS

Submitted by Jon Bush MINE MANAGER 6-30-97
Signature Title Date

Plan Received by Stephen Winkler Resource Specialist 7/7/97
Signature Title Date

I. GENERAL INFORMATION

- A. Name of Mine/Project DEER TRAIL MINE PTH
- B. Type of Operation HARD ROCK MINING LODE
(lode, placer, mill, exploration, development, production, other)
- C. Is this a (new/continuing) operation? (CIRCLE ONE)
If continuing a previous operation, this plan (replaces/modifies/supplements) a previous plan of operation.
(CIRCLE ONE)
- D. Proposed start-up date of operation 7-7-97
- E. Expected total duration of this operation 6 YEARS
- F. If seasonal, expected date of annual reclamation/stabilization close-out N/A
- G. Expected date for completion of all required reclamation N/A

II. PRINCIPALS

- A. Name, address and phone number of operator UNICO, INC. DEER TRAIL MINE
801-326-2004 MARYSVILLE
- B. Name, address and phone number of authorized field representative (if other than the operator). Attach authorization to act on behalf of operator.
Jon Bush same
- C. Name, address and phone number of owners of the claims (if different than the operator):
UNICO, INC. Ray BROWN 916-873-4394 MANGALIA, CAL
FAERPROP DALLAS TEXAS NUTE FAER ✓

(If more space is needed to fill out a block of information, use additional sheets and attach to form.)

D. Name, address and phone number of any other lessees, assigns, etc., and briefly describe their involvement with the operation, if applicable:

~~BE THE MINE~~ UNICO, INC MANGOIA CA RAY, JON RUSH WILL
BE THE MINE MANAGER, KEN BROWN WILL BE THE OPERATION SUPERVISOR.

III. PROPERTY OR AREA

Name of claim, if applicable, and the legal land description where the operation will be conducted.

MC #	Name	Section	Township	Range
	DEER TRAIL MINE PTH	12(3)	29 SOUTH	4 WEST

IV. DESCRIPTION OF THE OPERATION

- A. Access. Show on a map (USGS quadrangle map or a National Forest map, for example) the claim boundaries, if applicable, and all access needs such as roads and trails, on and off the claim. Specify which Forest Service roads will be used, where maintenance or reconstruction is proposed, and where new construction is necessary. For new construction, include construction specifications such as widths, grades, etc., location and size of culverts, describe maintenance plans, and the type and sizes of vehicles and equipment that will use the access routes.

ATTACHED MAP SHOWS WORKING AREA. ACCESS IS FROM FOREST ROAD #125
PRESENT ROADS INTO CLAIM WILL BE MAINTAINED. ROAD WILL ACCOMMODATE
PICKUPS, SEMI TRUCKS AND ANY OTHER HEAVY EQUIPMENT NECESSARY FOR THE
MINE ORE WILL BE TRANSPORTED FROM THE MINE TO THE MILL FOR
PROCESSING. NO NEW CONSTRUCTION CONTEMPLATED

- B. Map, Sketch or Drawing. Show location and layout of the area of operation. Identify any streams, creeks or springs if known. Show the size and kind of all surface disturbances such as trenches, pits, settling ponds, stream channels and run-off diversions, waste dumps, drill pads, timber disposal or clearance, etc. Include sizes, capacities, acreage, amounts, locations, materials involved, etc.

AREA ONE ON MAP IS DESIGNATED ON THE SKETCH MAP. AREA ONE IS A MINING
OPERATION AND WILL BE CONDUCTED ON EXISTING DISTURBED LAND. ALL
SLURP MATERIAL WILL BE REMOVED FROM FOREST SERVICE LAND. ONE TRAILER
AND CAMPER WILL BE ON THE MINE. 3 PEOPLE WILL BE LIVING THERE. TO OPENING
OF OPERATIONS

(If more space is needed to fill out a block of information, use additional sheets and attach to form.)

- C. **Project Description.** Describe all aspects of the operation including mining, milling, and exploration methods, materials, equipment, workforce, construction and operation schedule, power requirements, how clearing will be accomplished, topsoil stockpiled, waste rock placement, tailings disposal; proposed number of drillholes and depths; depth of proposed suction dredging, and how gravels will be replaced, etc. Calculate production rates of ore. Include justification and calculations for settling pond capacities and, the size of runoff diversion channels.

WE WILL CONTINUE TO DRIFT AND DEVELOP IN EXISTING LEVELS ON CLAIMS ON THE #200 LEVEL. WE PLAN TO DO SOME DRILLING ON THESE CLAIMS TO DEFINE THE ORE BODY. ALL DRILLING AND EXPLORATION WILL BE PERFORMED UNDERGROUND. WE WILL PROCESS 50 TONS OF ORE A DAY. NO MORE THAN 200 TONS ON THE DUMP AT ONE TIME. WE WILL HAVE NO MORE THAN 500 TONS OF WASTE ROCK A YEAR. IF WE GO OVER THIS WE WILL TRUCK IT OFF FOREST SERVICE LAND. THE PROCESS OPERATION WILL CRUSH THE HIGH GRADE ORE INTO A 120 TO 200 FINE. METAL WILL BE SHIPPED FROM THE MINE FOR REFINEMENT. WE WILL BE USING A HAMMER MILL. IT IS A SMALL MILL USES A 1700 HP MOTOR. MINE SAFETY WILL BE SENDING YOU A PAPER ON THE EXPLOSIVE SITE AFTER THEIR INSPECTION IN 2 WEEKS. WE HAVE WATER FROM THE STREAM TO WATER TANK ON ROAD # 125. WE MAKE 3 TRIPS EVERY 2 WEEKS.

(If more space is needed to fill out a block of information, use additional sheets and attach to form.)

- D. **Equipment and Vehicle.** Describe that which is proposed for use in your operation (Examples: drill, dozer, wash plant, mill, etc.). Include: sizes, capacity, frequency of use, etc.

2 WATER TRUCKS, 1 2TON DUMP TRUCK, 3 TRACTORS OR MOTORS, WE RENT A
BACK HOPE, ONCE A MONTH TO MOVE JUNK.

- E. **Structures.** Include information about fixed or portable structures or facilities planned for the operation. Show locations on the map. Include such things as living quarters, storage sheds, mill buildings, thickener tanks, fuel storage, powder magazines, pipe lines, water diversions, trailer, sanitation facilities including sewage disposal, etc. Include engineering design and geotechnical information for project facilities, justification and calculations for sizing of tanks, pipelines and water diversions, etc.

1 TRAILER 1 CAMPER 2 ADULTS AND 2 KIDS

V. ENVIRONMENTAL PROTECTION MEASURES (SEE 36 CFR 228.8)

- A. **Air Quality.** Describe measures proposed to minimize impacts on air quality such as obtaining a burning permit for slash disposal or dust abatement on roads.

THERE ARE NO PLANS TO DO ANY BURNING ON FOREST SERVICE LAND OR PROPERTY.

ALL MINED MATERIALS WILL BE STORED AWAY FROM CHANNELS. WASTE DUMPING
WILL BE DISPOSED OF WITHIN UNDERGROUND WORKING- OR OR UTILIZED IN
SURFACE RECLAMATION OF LAND.

(If more space is needed to fill out a block of information, use additional sheets and attach to form.)

B. **Water Quality.** State how applicable state and federal water quality standards will be met. Describe measures or management practices to be used to minimize water quality impacts and meet applicable standards.

1. State whether water is to be used in the operation, and describe the quantity, source, methods and design of diversions, storage, use, disposal, and treatment facilities. Include assumptions for sizing water conveyance or storage facilities.
2. Describe methods to control erosion and surface water runoff from all disturbed areas, including waste and tailings dumps.
3. Describe proposed surface water and groundwater quality monitoring, if required, to demonstrate compliance with federal or state water quality standards.
4. Describe the measures to be used to minimize potential water quality impacts during seasonal closures, or for a temporary cessation of operations.
5. If land application is proposed for waste water disposal, the location and operation of the land application system must be described. Also describe how vegetation, soil, and surface and groundwater quality will be protected if land application is used.

EROSION CONTROL WILL BE CONDUCTED BY MANAGEMENT AND MAINTENANCE
THE WATER IS STORED IN A STORAGE TANK ON ROAD #125 60 FT ABOVE
THE MINE TO THE WEST.

C. **Solid Wastes.** Describe the quantity and the physical and chemical characteristics of solid waste produced by the operation. Describe how the wastes will be disposed of including location and design of facilities, or treated so as to minimize adverse impacts.

AN ESTIMATED 500 TONS WASTE ROCK IN AREA 2 WILL BE UTILIZED IN
SURFACE RECLAMATION. ALL WASTE ROCK WILL BE PUT ON PRESENT DUMP

D. **Scenic Values.** Describe protection of scenic values such as screening, slash disposal, or timely reclamation.

WE DO NOT EXPECT THAT THE OPERATION WILL DISTURB ANY OTHER
PROPERTY THAN AREA #1 ABOUT 12 ACRES PRESENTLY DISTURBED IN
THE AREA.

(If more space is needed to fill out a block of information, use additional sheets and attach to form.)

- E. **Fish and Wildlife.** Describe measures to maintain and protect fisheries and wildlife, and their habitat (includes threatened, endangered, and sensitive species) affected by the operations.

THERE ARE WILDLIFE IN THIS AREA. IF ANY THREATENED, ENDANGERED OR SENSITIVE SPECIES ARE ENCOUNTERED, THE MOST EXTREME MEASURES POSSIBLE WILL BE TAKEN TO PROTECT THEM.

- F. **Cultural Resources.** Describe measures for protecting known historic and archeological values, or new sites in the project area.

THERE ARE NO KNOWN CULTURAL RESOURCES IN THE AREA. HOWEVER, IF ANY ARE DISCOVERED THEY WILL BE REPORTED IMMEDIATELY AND PROTECTIVE MEASURES TAKEN TO PRESERVE THEM.

- G. **Hazardous Substances.**

1. Identify the type and volume of all hazardous materials and toxic substances which will be used or generated in the operations including cyanide, solvents, petroleum products, mill, process and laboratory reagents.

EXPLOSIVES WILL BE USED UNDERGROUND AND WILL BE USED AND STORED AS REGULATED BY MINE SAFETY AND HEALTH. FLUIDS WILL BE STORED IN APPROVED CONTAINERS. HYDROCHLORIC ACID, NITRIC ACID AND SODIUM HYDROXIDE MAY BE USED IN LAB STORED AS REGULATED BY D.E.Q. STANDARDS. A LIST OF CHEMICALS USED IN LAB IS ATTACHED TO THIS PLAN AS EXHIBIT 1.

2. For each material or substance, describe the methods, volume, and frequency of transport (include type of containers and vehicles), procedures for use of materials or substances, methods, volume, and containers for disposal of materials and substances, security (fencing), identification (signing/labeling), or other special operations requirements necessary to conduct the proposed operation.

HANDLING, STORAGE, DISPOSAL AND LABELING OF HAZARDOUS SUBSTANCES WILL BE IN ACCORDANCE WITH THE MINE AND D.E.Q. REGULATIONS. THE ENTRANCE TO THE AREA WILL BE GATED AND WATCHED 24 HOURS A DAY. THE SPILL PREVENTION PLAN IS THE DEQ. PLAN. ALL DOORS ON LAB ARE LOCKED WHEN NOT OCCUPIED.

(If more space is needed to fill out a block of information, use additional sheets and attach to form.)

3. Describe the measures to be taken for release of a reportable quantity of a hazardous, or the release of a toxic substance. This includes plans for spill prevention, containment, notification, and cleanup.

IF A RELEASE OF ANY QUANTITY OF HAZARDOUS SUBSTANCES OCCURS, WE
WILL TAKE ACTION TO CONTAIN IT AND REPORT IT TO THE APPROPRIATE
AUTHORITY. A SPILL PREVENTION IS PRACTICED WEEKLY AND ALL EMPLOYEES
ARE OR WILL BE TRAINED TO DEAL WITH ANY POTENTIAL PROBLEM.

- H. **Reclamation.** Describe the annual and final reclamation standards based on the anticipated schedule for construction, operations, and project closure. Include such items as the removal of structures and facilities including bridges and culverts, a revegetation plan, permanent containment of mine tailings, waste, or sludges which pose a threat of a release into the environment, closing ponds and eliminating standing water, a final surface shaping plan, and post operations monitoring and maintenance plan.

NO NEW CONSTRUCTION IS PLANNED AT THIS TIME. ACCESS ROADS WILL
BE RESTORED TO PREVIOUS CONDITION. VEGETATION WILL BE RESEED AS
RECOMMENDED BY FOREST SERVICE. PORTALS WILL BE CLOSED. ALL EQUIPMENT
AND STRUCTURES WILL BE REMOVED. THE SURFACE WILL BE CLOSED ACCORDING
TO MSHA REGULATIONS. THE PORTALS WILL HAVE ATTICS BUILT AND
STEEL DOORS WITH LOCKS INSTALLED TO PREVENT UNAUTHORIZED
ENTRANCE

VI. FOREST SERVICE EVALUATION OF PLAN OF OPERATIONS

- A. Required changes/modifications/special mitigation for plan of operations: See attached
Part VI.

(If more space is needed to fill out a block of information, use additional sheets and attach to form.)

3. Bond. Reclamation of all discharges connected with this plan of operations is covered by Reclamation Performance Bond No. _____, dated 7/21/97, signed by Ray C. Brown (Principal) and _____ (Surety), for the penal sum of \$500. This Reclamation Performance Bond is a guarantee of faithful performance with the terms and conditions listed below, and with the reclamation requirements agreed upon in the plan of operations. This Reclamation Performance Bond also extends to and includes any unauthorized activities conducted in connection with this operation.

The bond amount for this Reclamation Performance Bond was based on a bond calculation worksheet. The bond amount may be adjusted during the term of this proposed plan of operations in response to changes in the operations or to changes in the economy. Both the Reclamation Performance Bond and the bond calculation worksheet are attached to and made part of this plan of operations.

Should the bond delivered herewith, or any bond delivered hereafter in connection with this plan of operations, no longer be in effect, the operator shall, within 30 calendar days of receipt of the Forest Service demand, furnish a new bond satisfactory to the Forest Service. Until such time that a satisfactory bond is received by the Forest Service, no further operations other than reclamation activities will be allowed.

Acceptable bond securities (subject to change) include:

1. Negotiable Treasury bills and notes which are unconditionally guaranteed as to both principle and interest in an amount equal at their par value to the penal sum of the bond; or
2. Certified or cashier's check, bank draft, Post Office money order, cash, assigned certificate of deposit, assigned savings account, blanket bond, or an irrevocable letter of credit equal to the penal sum of the bond.

TERMS AND CONDITIONS

- A. If a bond is required, it must be furnished before approval of the plan of operations.
- B. Information provided with this plan marked confidential will be treated in accordance with the agency's laws, rules and regulations.
- C. Approval of this plan of operations does not constitute certification of ownership to any person named herein and/or recognition of the validity of any mining claim named herein.
- D. Approval of this plan does not relieve me of my responsibility to comply with other applicable state or federal laws, rules or regulations.
- E. If previously undiscovered cultural resources (historic or prehistoric objects, artifacts, or sites) are exposed as a result of operations, those operations will not proceed until notification is received from the Authorized Officer that provisions for mitigating unforeseen impacts as required by 36 CFR 228.4(e) and 36 CFR 800 have been complied with.
- F. This plan of operations has been approved for a period of _____ or until March 24, 1999. A new or revised plan must be submitted in accordance with 36 CFR part 228, subpart A, if operations are to be continued after that time period.

VI. FOREST SERVICE EVALUATION OF PLAN OF OPERATIONS

A. Required changes/modifications/special mitigation for plan of operations:

1. Occupancy of the site is authorized only for workers or employees of UNICO, Inc. who may use existing facilities to accomplish work necessary for mining. Use of trailer for family housing as originally proposed in section IV.E is not authorized.
2. All waste rock from underground mining operation will be placed underground rather than on the existing waste rock dump at the site.
3. Reclamation work will be performed according to the attached reclamation plan.

Doyle R F Saniger

7/21/97

OPERATING PLAN ACCEPTANCE:

I/We have reviewed and agree to comply with all conditions in this plan of operations including the required changes, modifications, special mitigation, and reclamation requirements. I/We understand that the bond will not be released until the Authorized Officer in charge gives written approval of the reclamation work.

Jon Rush
Operator (or Authorized Representative)

7-7-97
(Date)

OPERATING PLAN APPROVAL:

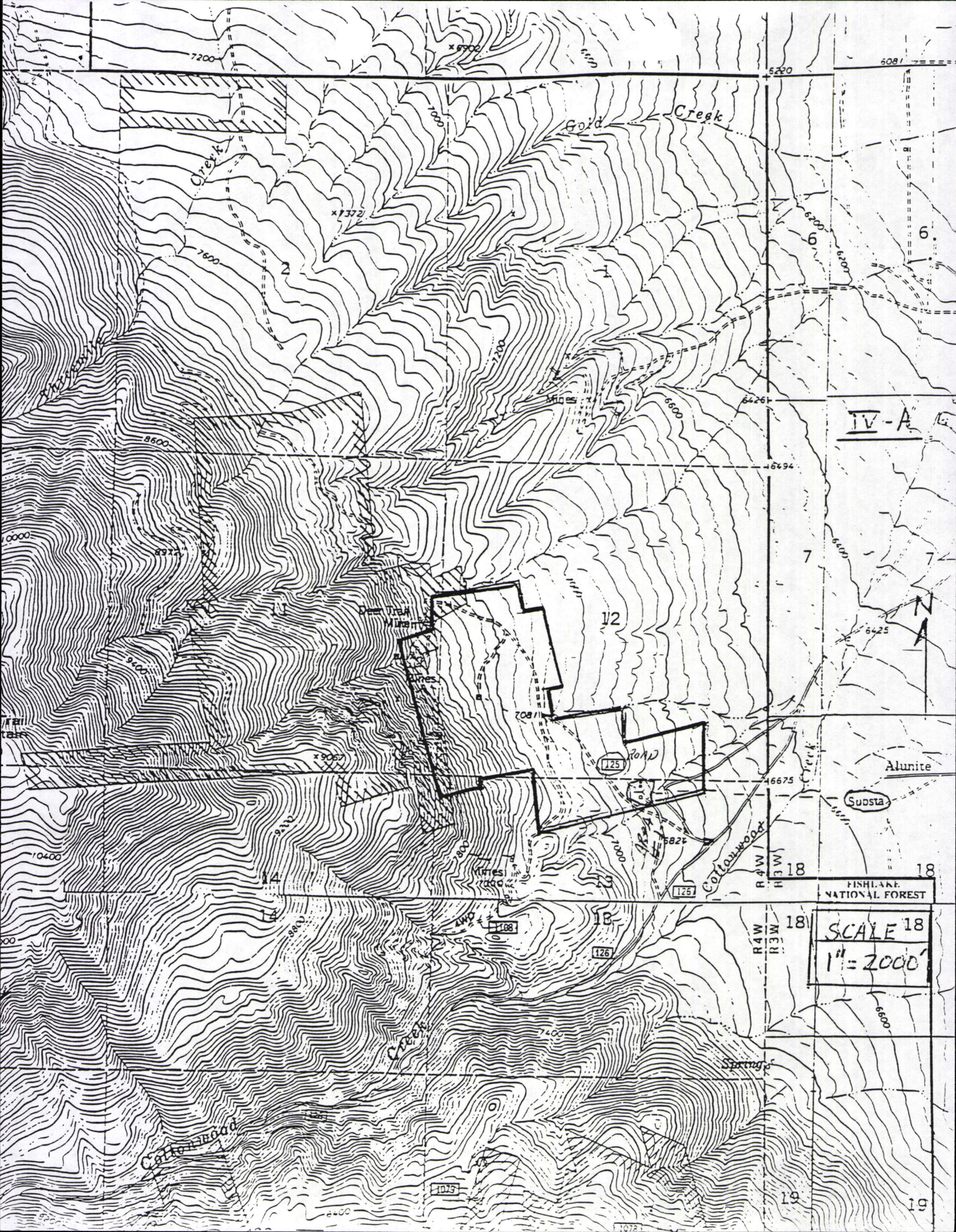
DAYLE R. FLANIGAN
(Name)

DISTRICT RANGER
(Title)

Daule R. Flanigan
(Authorized Officer)

7/21/97
(Date)

Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, Room 404-W, Washington, D.C. 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB #0596-0022), Washington, D.C. 20503.



DEER TRAIL MINE PTH

OLD
HOUSE

AMP
HED

COMPRESSOR

OLD
HED

CAMP
1 PERSON

PORTAL

SAFETY
BOOM
AND
FIRST
AID

TRAILER: 2 PERSONS

REST
ROOM
LAB

OFFICE

WASTE
DUMP

TRAIN
HOUSE
AND
SHOP

ORE
DUMP

EXPLOSIVE
MAG.

**** CHEMICAL LIST ****

ALCOHOL
AMMONIA
BAKING SODA
BIO-O-LEACHENT
CAUSTIC SODA
HYDROCHLORIC ACID
HYDROFLUDRIC ACID
NITRIC ACID
SODIUM BROMIDE
SODIUM CARBONATE
SODIUM THIOSULFATE

RECLAMATION PLAN
for
UNICO/DEER TRAIL ORE DUMP

I. SURFACE RECLAMATION - REVEGETATION

Description:

Load, haul and spread 200 tons of ore material from ore dump to a suitable location at the mine site to be determined by the Forest Service. If necessary, haul and spread topsoil. Contour and reshape the ground surface to blend in with surrounding terrain. Seed all disturbed areas (estimated at 1/4 acre) with Forest Service approved seed mix at 26 pounds per acre. Fertilize at 200 pounds per acre with commercial fertilizer (16:16:16).

Recommended seed mixture, Beaver Ranger District.

<i>Species</i>	<i>Pounds/Acre</i>
Hard Fescue (Durar)	4
Dryland Orchardgrass (Paiute)	2
Bluebunch Wheatgrass (Whitmar)	4
Crested Wheatgrass (Hycrest)	6
Annual Ryegrass	4
Alfalfa (Ladak)	2
Small Burnet (Delar)	4
Total	26

II. RECLAMATION STANDARDS

1. All reclaimed areas will be graded and restored to closely resemble the general surface configuration of surrounding terrain and blend into and compliment the drainage pattern of the surrounding terrain, and be reclaimed to be capable of supporting the approved post-exploration land use.
2. Seeding and planting of disturbed areas shall be conducted:
 - a) Immediately after final site preparation; and
 - b) During the first normal period for favorable planting conditions as recommended by the Forest Service.
3. Acceptable ground cover requirements for bond release will be at least 70 percent of an adjacent like area. Ground cover will include:
 - a) live perennial basal herbaceous vegetation.
 - b) accumulated dead plant litter.
 - c) rock fragments over 3/4 inch diameter.